Date: Tue, 19 Apr 94 12:45:33 PDT
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V94 #112
To: Ham-Ant

Ham-Ant Digest Tue, 19 Apr 94 Volume 94 : Issue 112

Today's Topics:

? About 5/8ths antenna at 900Mhz
About Lightning Bolt Quad
Antenna Info needed
Formula for determining optimum distance between elements in a Y
GAP verses Butternut Comparison Questions..
Getting ladder line out of the shack
groundplane antenna for 157.32125mhz
HF mobile and the HS-100
Through-the-window on a Saturn
Where to get KCTracker/Tuner ?

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 19 Apr 1994 10:14:34 -0400
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!news.mic.ucla.edu!
nntp.club.cc.cmu.edu!news.sei.cmu.edu!bb3.andrew.cmu.edu!andrew.cmu.edu!
ee2g+@network.ucsd.edu
Subject: ? About 5/8ths antenna at 900Mhz
To: ham-ant@ucsd.edu

Hi all!

Ok, I looked in the arrl antenna book and the 1994 handbook, but
neither mentions the 5/8th for 900Mhz. I can figure out the radiator
length via a formula, but what is the formula for the loading coil?

```
    !
    |---> radiator
    |
    {---> mysterious loading coil
    }
    |
    L--->coax 50 ohm
```

Thanks
N3QAT Chuck Kamas

p.s I finally HEARD and decoded packets from the shuttle!! Oh boy!
p.p.s I guess my theroy about it all being done out of a warehouse in
Huston is disproved now. 8-<.

Date: Tue, 19 Apr 94 02:58:31 -0500
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!darkstar.UCSC.EDU!news.hal.COM!olivea!
news.bu.edu!noc.near.net!news.delphi.com!usenet@network.ucsd.edu
Subject: About Lightning Bolt Quad
To: ham-ant@ucsd.edu

The best answer would probably be from Lightning Bolt itself, call them!

Date: 19 Apr 94 18:16:13 GMT
From: news-mail-gateway@ucsd.edu
Subject: Antenna Info needed
To: ham-ant@ucsd.edu

Hi,

I am looking for a Short Wave antenna for my Sony ICF-SW77. I need a good
antenna to get weak signal of BBC & VOA broadcasts which are directed to Asia.
Anyone has one or knows about it, please give me suggestions and
recommendations (which kind antenna I should buy).

Thank you in advance for the information.

kynguyen@bluefish.nosc.mil

Date: Tue, 19 Apr 94 09:43:20 -0500
From: ihnp4.ucsd.edu!agate!cat.cis.Brown.EDU!noc.near.net!news.delphi.com!

usenet@network.ucsd.edu
Subject: Formula for determining optimum distance between elements in a Y
To: ham-ant@ucsd.edu

George Sladic <gsladic@mcs.com> writes:

>I know the driven element should be a 1/2 wavelength and the reflector 5%
>longer and the director 5% shorter in a 3 element beam. How do I determine
>the distance between the driven element and the parasitic elements? What
>about if the yagi has more than 3 elements, say 7?

Try to find YagiMax, it is on nic.funet.fi in pub/ham/antennas, and it
is ymax311 oir yagim311, i cant remember...

it will determine the center freq for a given deign, and optimize
it for a number of goals. Not well documented, but it works.
I would start with one of the template files, of which there are many.

good luck,

peter
n1qdq

Date: Tue, 19 Apr 94 03:05:41 -0500
From: news.bu.edu!noc.near.net!news.delphi.com!usenet@purdue.edu
Subject: GAP verses Butternut Comparison Questions..
To: ham-ant@ucsd.edu

<auchd@acad2.alaska.edu> writes:

>I'm always hearing talk about "longer active elements" when comparisons are
>made between the GAP and Butternut series of vertical antennas. I would like
>to hear from users their perspectives on these antennas and how much better
>they are than a standard 1/4 wave verticle, which is what I use. Thanks in
>advance.
>
>WL7N0 - James Wiedle

I have used both the Butternut HF2V (80 and 40m 32-foot) and the big GAP
vertical (the 160, 80, and 40-meter 45-foot tall one, I forget their name
for it). They are both very good antennas - my experience has been very
positive on both. My choice, hands down, is the GAP. It's somewhat of a
pain to install (takes at least three people to do it safely) but the
results are well worth it. The Butternut HF2V is great on 40 and decent on
80, but the GAP just blows it away. I worked DXCC on 80 and 40 with the
GAP, running 100w or less, in a matter of a couple months of very casual

operating. Also, I had no trouble working anything I could hear on 80 and
40. It's so-so on 160, but I still managed to work DX with it. If you
have the room to put it up and the people to help you put it up, go for it.

73, Mike KB3RG/CU3LF/CU0WPX

Date: Tue, 19 Apr 1994 11:39:34 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!seas.smu.edu!vivaldi!rsd0!
usenet@network.ucsd.edu
Subject: Getting ladder line out of the shack
To: ham-ant@ucsd.edu

In article <2oej7h$poq@paperboy.gsfc.nasa.gov> lvn@cen.com (Larry Novak) writes:
>I use a similar technique to get my coax and ground wires out of the
>shack, but I'd hate to tell you how much plastic I cut to size and then
>shattered trying to drill/punch/cut holes in it. I finally resorted to
>melting holes thru it with my soldering iron! Does anyone have any good
>suggestions about how to stop this stuff from cracking when you're
>putting holes in it?

I had to get some new windows made for my boat. The good folks at Royal
Plastics in Dallas did it an let me watch as they cut the lexan and
drilled the holes. No cracks. So how do you do it I asked. Use DULL
drill bits says he. I've tried it an it works. Sharp bits have sharp
edges which catch the plastic and crack it.

dave

Date: Tue, 19 Apr 1994 03:03:12 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!psgrain!nntp.cs.ubc.ca!
cyber2.cyberstore.ca!nwnexus!a2i!mlyon@network.ucsd.edu
Subject: groundplane antenna for 157.32125mhz
To: ham-ant@ucsd.edu

i have a scanner that i would like to build a groundplane antenna for. i
took the bottom part of the freq range and added it to the top part of
the freq range and averaged it and came up with the above posted freq.
all i need to know is what is the formula to figure out the lengths of
the poles that point downwards and upwards?

 thanx,
 mlyon@rahul.net
--
Mike Lyon <mlyon@rahul.net>

Date: Mon, 18 Apr 94 21:53:00 -0400
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!darwin.sura.net!
hearst.acc.Virginia.EDU!pplace!ed.lang@network.ucsd.edu
Subject: HF mobile and the HS-100
To: ham-ant@ucsd.edu

Do you use a HS-100 antenna? If so on what car/truck/camper? How do you
like it?

I have one on the way and will be using it with a TS-50 in a 1990
Bronco, and a 1993 camper on a Ford E350 van chassis.

Let me know.

 ≥ SLMR 2.1a ≥ KC4YLX DX-CLUSTER, Troy Va (145.09) ed.lang@pplace.com

Date: 18 Apr 1994 22:32:47 GMT
From: ihnp4.ucsd.edu!swrinde!sgiblab!wrdis02.robins.af.mil!rcp6.elan.af.mil!ada1!
edsko@network.ucsd.edu
Subject: Through-the-window on a Saturn
To: ham-ant@ucsd.edu

I have a Larsen KG 2-70 that I want to install on my Saturn SL2. For those
who aren't acquainted with the Saturn, the rear window has a black "dithered"
tinting on the top and side edges. I would like to install my antenna on the
upper edge of the rear window, but the mounting instructions clearly state
that any window tinting or applications should be avoided. I *tried* to
remove the dot-pattern tinting with a razor, but that stuff is really stuck to
the window! A call to Saturn's customer service center revealed that the
material is supposedly impregnated into the glass (it must etch itself into
the glass). The local sales/repair outlet has not shed any light on how to
remove the stuff.

Are there any Saturn owners out there who have addressed the problem? If
I mount the antenna on top of the tinting, will this severely impact the
antenna performance? What if I lower the antenna and have it span one of
the rear defroster veins? Is there some strong solvent which will remove
the tinting?

Thanks in advance,

Ed Skochinski
KE6CSY

Date: 19 Apr 94 16:23:55 GMT
From: sdd.hp.com!cs.utexas.edu!geraldo.cc.utexas.edu!paulus@hplabs.hp.com
Subject: Where to get KCTracker/Tuner ?
To: ham-ant@ucsd.edu

I need to get one of Kansas City Tracker / Tuner,
where to get and how much it cost ?

Thanks for all pointers,

Paulus N5SNN

--
Paulus Suryono Adisoemarta, N5SNN / YG1QN
yono@ccwf.cc.utexas.edu
yono@gnu.ai.mit.edu
paulus@nextdown.pe.utexas.edu

End of Ham-Ant Digest V94 #112
